


Programme Overview

TIME	Monday	Tuesday	Wednesday	Thursday	Friday	
7:00 to 8:00		BREAKFAST (Conference Hall)	BREAKFAST (Conference Hall)	BREAKFAST (Conference Hall)	BREAKFAST (Conference Hall)	
		Chair: Nel	Chair: Vorster	Chair: Vinod Kumar		
8:00 to 8:20		INVITED 1: Ashutosh Tiwari	INVITED 4: Susanne Siebentritt	INVITED 8: S. J. Dhoble	Booking out & Departure	
8:20 to 8:40						
8:40 to 9:00		Oral 1: J. A. A. Engelbrecht	Oral 9: Vinod Kumar	Oral 20: Vinay Kumar		
9:00 to 9:20		Oral 2: R. A. Harris	Oral 10: R. M. Dix-Peek	Oral 21: P. P. Mokoena		
9:20 to 9:40		Oral 3: Eric N. Maluta	Oral 11: Edward Lee	Oral 22: Ashwini Kumar		
9:40 to 10:00		INVITED 2: Peter Deák	INVITED 5: Vladimir Dyakonov	INVITED 9: Lucas C. V. Rodrigues		
10:00 to 10:20					10:00 to 10:20	
10:20 to 10:40		TEA (Conference Hall)	TEA (Conference Hall)	TEA (Conference Hall)	10:20 to 10:40	
		Chair: Ntwaeaborwa	Chair: van Dyk			
10:40 to 11:00		INVITED 3: David J. Rogers	INVITED 6: Vladimir Kolkovsky	 POSTER SESSION B: posters 39 - 74 (Conference Hall upstairs)	10:40 to 11:00	
11:00 to 11:20					11:00 to 11:20	
11:20 to 11:40		Oral 4: Trilok K. Pathak	Oral 12: Matshisa J. Legodi		11:20 to 11:40	
11:40 to 12:00		Oral 5: Katekani Shingange	Oral 13: Joachim Bollmann		11:40 to 12:00	
12:00 to 12:20		Oral 6: Vijay Kumar	Oral 14: Ivan G. Ivanov		12:00 to 12:20	
12:20 to 12:40		Oral 7: Jitendra Sharma	Oral 15: D. D. Ramteke		12:20 to 12:40	
12:40 to 13:00		Oral 8: V. Craciun	Oral 16: Muburak Y. A. Yagoub	CONFERENCE PHOTO	12:40 to 13:00	
13:00 to 14:00		LUNCH (Conference Hall)	LUNCH (Conference Hall)	LUNCH (Conference Hall)	13:00 to 14:00	
			Chair: Venter	Chair: Swart		
14:00 to 14:20	Arrival & Registration (settle in to accommodation)	POSTER SESSION A: posters 1 - 38 (Conference Hall upstairs)	INVITED 7: Martin Geller	INVITED 10: Philippe F. Smet	14:00 to 14:20	
14:20 to 14:40						14:20 to 14:40
14:40 to 15:00				Oral 17: Magnus C. Wagener	Oral 23: Vishal Sharma	14:40 to 15:00
15:00 to 15:20				Oral 18: M. E. Lee	Oral 24: Jorma Hölsä	15:00 to 15:20
15:20 to 15:40			(cooldrink/beer/wine 15:00)	Oral 19: P. O. Holtz	Oral 25: Iorkyaa Ahemen	15:20 to 15:40
15:40 to 16:00				TEA (Conference Hall)	TEA (Conference Hall)	15:40 to 16:00
16:00 to 16:30						16:00 to 16:30
16:30 to 17:00			GAME DRIVE (option 1)	GAME DRIVE (option 2)	(free time)	16:30 to 17:00
17:00 to 17:30					17:00 to 17:30	
17:30 to 18:00					17:30 to 18:00	
18:00 to 20:30	WELCOME DINNER (Wild Olive Restaurant)	DINNER (Mountain Lodge)	DINNER (Boma)	CONFERENCE DINNER (Mountain Lodge)	18:00 to 20:30	

Scientific Programme and Abstracts Tuesday 28 March


Time	Activity
7:00-8:00	Breakfast (Conference Hall)
ORAL SESSION 1: Chairperson – Jackie Nel	
8:00-8:40	Invited Talk 1: Ashutosh Tiwari (p. iv) <i>p. 2: Programmable bioelectronic devices and systems</i>
8:40-9:00	Oral 1: J. A. A. Engelbrecht <i>p. 3: An assessment of theoretical models for the calculation of the refractive index of $In_xGa_{1-x}As$</i>
9:00-9:20	Oral 2: R. A. Harris <i>p. 4: Surface enhanced Raman scattering through selective substitution of thiolated coumarin derivatives on gold nanoparticles</i>
9:20-9:40	Oral 3: Eric N. Maluta <i>p. 5: Density functional theory study of TiO_2 brookite (100), (110) and (210) surfaces doped with ruthenium (Ru) and calcium (Ca) for application in dye-sensitized solar cell</i>
9:40-10:20	Invited Talk 2: Peter Deák (p. v) <i>p. 6: Calculating the optical properties of defects and surfaces in diamond and TiO_2</i>
10:20-10:40	Tea (Conference Hall)
ORAL SESSION 2: Chairperson – Martin Ntwaeaborwa	
10:40-11:20	Invited Talk 3: David J. Rogers (p. iv) <i>p. 7: Zinc oxide based photonics</i>
11:20-11:40	Oral 4: Trilok K. Pathak <i>p. 8: Structural and plasmonic properties of noble metal doped ZnO nanomaterials</i>
11:40-12:00	Oral 5: Katekani Shingange <i>p. 9: Microwave-assisted synthesis of Au nanoparticles incorporated ZnO rose-like hierarchical structures and their gas sensing properties</i>
12:00-12:20	Oral 6: Vijay Kumar <i>p. 10: Recent advances in plasmon enhanced luminescence upconversion of lanthanide-doped $NaYF_4$ core-shells for solar cell applications</i>
12:20-12:40	Oral 7: Jitendra Sharma <i>p. 11: Optical properties of $Sr_3B_2O_6:Dy^{3+}/PMMA$ polymer nanocomposites</i>
12:40-13:00	Oral 8: V. Craciun <i>p. 12: Radiation effects in amorphous optical films</i>
13:00-14:00	Lunch (Conference Hall)
14:00-16:00	POSTER SESSION A: posters 1 – 38 (p. 43 – 80) (Conference Hall upstairs)
16:00-18:00	GAME DRIVE (option 1)
18:00-20:30	DINNER (Mountain Lodge)

Scientific Programme and Abstracts

Wednesday 29 March

Time	Activity
7:00-8:00	Breakfast (Conference Hall)
ORAL SESSION 3: Chairperson – Freddie Vorster	
8:00-8:40	Invited Talk 4: Susanne Siebentritt (p. vi) <i>p. 14: Why do we make CIGS solar cells off-stoichiometric?</i>
8:40-9:00	Oral 9: Vinod Kumar <i>p. 15: Rare earth doped up conversion nanophosphor for solar cell application</i>
9:00-9:20	Oral 10: R. M. Dix-Peek <i>p. 16: Identification of defects in poly-crystalline Si solar cells</i>
9:20-9:40	Oral 11: Edward Lee <i>p. 17: Synthesis and characterisation of Y₂O₃ phosphor co-doped with bismuth and ytterbium ions for application in solar cells</i>
9:40-10:20	Invited Talk 5: Vladimir Dyakonov (p. vi) <i>p. 18: Charge carrier recombination in perovskite solar cells</i>
10:20-10:40	Tea (Conference Hall)
ORAL SESSION 4: Chairperson – Ernest van Dyk	
10:40-11:20	Invited Talk 6: Vladimir Kolkovskiy (p. vii) <i>p. 19: Carbon-hydrogen-related complexes in Si</i>
11:20-11:40	Oral 12: Matshisa J. Legodi <i>p. 20: Deep Level Transient Spectroscopy and Admittance Spectroscopy of methylammonium lead-bromide (CH₃NH₃PbBr₃) perovskite solar cells</i>
11:40-12:00	Oral 13: Joachim Bollmann <i>p. 21: Admittance Spectroscopy or DLTS: a contrasting juxtaposition</i>
12:00-12:20	Oral 14: Ivan G. Ivanov <i>p. 22: Doping and defects in fluorinated SiC CVD</i>
12:20-12:40	Oral 15: D. D. Ramteke <i>p. 23: Structure and photoluminescence properties of Ba_(1-x)Si₄O₁₀:xSm³⁺</i>
12:40-13:00	Oral 16: Mubarak Y. A. Yagoub <i>p. 24: Low temperature photoluminescence study of Ce³⁺ and Eu²⁺ ions doped SrF₂ nanocrystal</i>
13:00-14:00	Lunch (Conference Hall)
ORAL SESSION 5: Chairperson – André Venter	
14:00-14:40	Invited Talk 7: Martin Geller (p. vii) <i>p. 25: Spectroscopy on self-assembled quantum dots: transport meets optics</i>
14:40-15:00	Oral 17: Magnus C. Wagener <i>p. 26: Electronic structure and optical properties of GaSb/GaAs and GaSb/Al_xGa_{1-x}As quantum rings</i>
15:00-15:20	Oral 18: M. E. Lee <i>p. 27: Optical and microanalytical characterization of Al_xGa_{1-x}N epilayers for photonic applications</i>
15:20-15:40	Oral 19: P. O. Holtz <i>p. 28: Single polarized-photon emitters from elongated III-nitride pyramidal quantum dots</i>
15:40-16:00	Tea (Conference Hall)
16:00-18:00	GAME DRIVE (option 2)
18:00-20:30	DINNER (Boma)

Scientific Programme and Abstracts Thursday 30 March

Time	Activity
7:00-8:00	Breakfast (Conference Hall)
ORAL SESSION 6: Chairperson – Vinod Kumar	
8:00-8:40	Invited Talk 8: S. J. Dhoble (p. viii) <i>p. 30: Luminescence behaviour of lanthanide ions in different host lattices and their application in LED for lighting</i>
8:40-9:00	Oral 20: Vinay Kumar <i>p. 31: Potential of Sm³⁺ doped LiSrVO₄ nanophosphor to fill amber gap in LEDs</i>
9:00-9:20	Oral 21: P. P. Mokoena <i>p. 32: Up-conversion luminescence of Er³⁺/Yb³⁺ doped Sr₅(PO₄)₃OH phosphor powders for photodynamic therapy</i>
9:20-9:40	Oral 22: Ashwini Kumar <i>p. 33: Co-operative energy transfer in Yb³⁺ -Tb³⁺ co-doped SrGd₄O₇ upconverting phosphor</i>
9:40-10:20	Invited Talk 9: Lucas C. V. Rodrigues (p. ix) <i>p. 34: Designing infrared persistent luminescence materials</i>
10:20-10:40	Tea (Conference Hall)
10:40-12:40	POSTER SESSION B: posters 39 – 74 (p. 81 – 116) (Conference Hall upstairs)
	
12:40-13:00	CONFERENCE PHOTO
13:00-14:00	Lunch (Conference Hall)
ORAL SESSION 7: Chairperson – Hendrik Swart	
14:00-14:40	Invited Talk 10: Philippe F. Smet (p. ix) <i>p. 35: Enhancing the performance of persistent phosphors: focus on the trapping defects and detrapping processes</i>
14:40-15:00	Oral 23: Vishal Sharma <i>p. 36: Combustion synthesis of blue long lasting phosphor CaAl₄O₇: Eu²⁺, Dy³⁺ and its novel application in fingerprint and lip mark detection</i>
15:00-15:20	Oral 24: Jorma Hölsä <i>p. 37: Defects and impurities: from Bologna Stone to gem stones</i>
15:20-15:40	Oral 25: Iorkyaa Ahemen <i>p. 38: Spectroscopic investigation of Ce³⁺/Eu³⁺ co-doped Li₂BaZrO₄ nanophosphors</i>
16:00-18:00	Free time
18:00-20:30	CONFERENCE DINNER (Mountain Lodge)

Poster Abstracts – Session A (posters 1-38)

Poster	Presenter	Title
1 (p. 43)	Edwin Mapasha	Electronic properties of B and Al doped <i>graphane</i> : A hybrid density functional study
2 (p. 44)	Emmanuel Igumbor	First principle studies of electronic properties of single and bilayer mixed dichalcogenide
3 (p. 45)	Emmanuel Igumbor	Hybrid functional study of P, As, Sb and Bi defect levels in Ge
4 (p. 46)	Felana Andriambelaza	First principles studies of Te line ordered alloys in a MoS ₂ monolayer
5 (p. 47)	Helga T. Danga	Electrically active defects in epitaxial <i>p</i> -type silicon after alpha-particle irradiation
6 (p. 48)	Helga Danga	Electrical characterization of alpha-particle induced defects in Pd/ZnO Schottky barrier diodes
7 (p. 49)	Benard S. Mwankemwa	Effects of surface morphology on the optical and electrical properties of Schottky diodes of CBD deposited ZnO nanostructures
8 (p. 50)	Alexander T. Paradzah	Ultrafast electron and hole dynamics of photo-excited hematite thin films: An intensity dependency study
9 (p. 51)	Abraham Barnard	Activation energy and mechanism of the annealing of Sb-vacancy and E' complex's in n-type germanium
10 (p. 52)	Kelebogile Maabong	Optical and photoelectrochemical properties of hematite photoanode: influence of thickness and growth temperature
11 (p. 53)	Ezekiel Omotoso	The influence of thermal annealing on the characteristics of Au/Ni Schottky contacts on <i>n</i> -type 4H-SiC
12 (p. 54)	Shandirai M. Tunhuma	Doping dependence of the electrical characteristics of nitrogen-doped n-type 4H-silicon carbide
13 (p. 55)	Fatemeh Taghizadeh	Laplace DLTS characterization of the fine structure associated with the radiation induced E3 defect in GaAs
14 (p. 56)	Kian Ostvar	Electric field dependence study of the E _c -0.58 eV centre in bulk grown n-type gallium arsenide using Laplace DLTS
15 (p. 57)	P. N. M. Ngoepe	Characterisation of ion implanted GaN by DLTS
16 (p. 58)	Walter Meyer	In-system monitoring of MOSFET threshold voltage due to radiation degradation
17 (p. 59)	V. E. Gora	Determination of the optimum annealing temperature to erase alpha induced defects on Co-4H-SiC Schottky contacts
18 (p. 60)	V. E. Gora	Comparison of the properties of nickel, cobalt, palladium and tungsten Schottky contacts on 4H-silicon carbide
19 (p. 61)	SJ Dhoble	Energy Transfer from Pr ³⁺ to Gd ³⁺ in BaB ₈ O ₁₃ phosphor and its application in phototherapy lamp

20 (p. 62)	Winfred Mueni Mulwa	DFT+U and experimental studies of Ce ³⁺ Cu ²⁺ : γ -Al ₂ O ₃
21 (p. 63)	Sudhakar Reddy Busireddy	Preparation and characterization of Eu ³⁺ & Tb ³⁺ ions doped alkali oxide (Li ₂ O/Na ₂ O/K ₂ O) modified borophosphate glasses for red and green laser and display device applications
22 (p. 64)	E. Coetsee	Energy transfer study between Ce ³⁺ and Tb ³⁺ ions in a calcium fluoride crystal
23 (p. 65)	D. I. Shahare	Luminescence properties of Na ₂ Sr ₂ Al ₂ PO ₄ Cl ₉ :Sm ³⁺ phosphor
24 (p. 66)	George Tshabalala	Synthesis and characterization of MV _{0.5} P _{0.5} O ₄ :Sm ³⁺ , Tm ³⁺ (Ln = Gd, La, Y) for solar cells application
25 (p. 67)	Jorma Holsa	Paramagnetism of rare earth ions with the same 4f ⁷ electron configuration: Eu ²⁺ , Gd ³⁺ and Tb ^{IV} in EuAl ₂ O ₄ , Gd ₂ O ₃ , and TbO ₂
26 (p. 68)	Jorma Holsa	Microstructural and spectroscopic properties of the CaTiO ₃ :Pr ³⁺ , Zn ²⁺ red emitting persistent phosphor
27 (p. 69)	D. D. Ramteke	Physical and optical properties of lithium borosilicate glasses doped with Dy ³⁺ ions
28 (p. 70)	Simon N. Ogugua	Photoluminescent dynamics of Pr ³⁺ and Dy ³⁺ in R ₂ SiO ₅ (R = La, Y) host
29 (p. 71)	Kishore Kumar Nair	Synthesis of Ag-SnO ₂ nanocomposites and evaluation of optical, photoluminescence and antimicrobial properties
30 (p. 72)	L. Mathevula	Structural and optical properties of rare-earth doped α -Fe ₂ O ₃ nanoparticles
31 (p. 73)	R.E. Kroon	Reflection measurements for luminescent powders
32 (p. 74)	R.E. Kroon	Investigating the capability of ToF-SIMS to determine the oxidation state of Ce ions
33 (p. 75)	L. J. B. Erasmus	Characterisation of the optical thermometry properties of La ₂ O ₂ S:Eu phosphor material
34 (p. 76)	Trilok K. Pathak	Effect of annealing temperature on structural and luminescence properties of Eu doped NaYF ₄ phosphor
35 (p. 77)	LF Koao	Influence of citric acid solution on LiMn ₂ O ₄ nanostructures prepared by chemical bath deposition method
36 (p. 78)	LF Koao	Structural and luminescence properties of self-yellow emitting undoped Zn ₂ V ₂ O ₇ and (Ca, Ba, Sr)-doped Zn ₂ V ₂ O ₇ phosphors synthesised by combustion method
37 (p. 79)	A. Balakrishna	Host sensitized near-infrared emission in Nd ³⁺ doped different alkaline earth-sodium-phosphors
38 (p. 80)	M.M. Duvenhage	Role of target and Ga particulates on the surface and optical properties of Y ₃ (Al,Ga) ₅ O ₁₂ :Tb thin films prepared by PLD

Poster Abstracts – Session B (posters 39-74)

Poster	Presenter	Title
39 (p. 81)	Danielle Venter	Capacitance spectroscopy on GaNAs/GaAs quantum structure embedded solar cells
40 (p. 82)	Sebastian Mienie	Hall effect electrical characterization of solar cell materials
41 (p. 83)	A. J. Fourie	Deposition of CZT-precursor layers for CZTS solar cell
42 (p. 84)	Peter C. Korir	Effect of selenization time on the structural and morphological properties of Cu(In,Ga)Se ₂ thin film absorber layer using a two-step growth process
43 (p. 85)	JR Botha	Effect of dopant density on contact potential difference across n-type GaAs homojunctions using Kelvin probe force microscopy
44 (p. 86)	J. R. Botha	Patterned growth of ZnO nanorods for organic/inorganic hybrid solar cell
45 (p. 87)	Francis Dejene	Effect of growth temperature on structural and luminescence properties of ZnO nanoparticles
46 (p. 88)	Francis Dejene	Effects of precursor concentration on morphological and structure properties of TiO ₂ synthesized via sol-gel method
47 (p. 89)	A. K. Bedyal	A potential green emitting citrate gel synthesized NaSrBO ₃ :Tb ³⁺ phosphor for display application
48 (p. 90)	LL Noto	Photoluminescence and thermoluminescence properties of BaGa ₂ O ₄
49 (p. 91)	Vinod Kumar	Tailoring and optimization of optical properties of CdO thin films for optoelectronic applications
50 (p. 92)	Vinod Kumar	Photons and electron beam pumped luminescence characteristics of holmium activated CaMoO ₄ phosphor
51 (p. 93)	Chinedu C. Ahia	Photoluminescence and structural properties of single and double MOVPE-grown InGaSb/GaSb quantum wells
52 (p. 94)	Ngcali Tile	Atmospheric pressure-MOVPE growth of GaSb/GaAs quantum dots
53 (p. 95)	S. R. Dobson	Photoluminescence measurements of InAs _(1-x) Sb _(x) lattice matched to GaSb
54 (p. 96)	V. Craciun	Optical and structural properties of Type-II quantum dots
55 (p. 97)	Vijay Kumar	Recent advances in rare earth doped alkali-alkaline earth borates for solid state lighting applications: a mini review
56 (p. 98)	Vladimir Kolkovsky	Hydrogen-related defects in Al ₂ O ₃ layers grown on n-type Si by the atomic layer deposition technique
57 (p. 99)	Mustafa Ahmed	Effect of Sm doping on the structural and optical properties of ZnO nanorods grown by chemical bath deposition
58 (p. 100)	S. R. Tankio Djiokap	Influence of NiO as intermediate layer on the properties of ZnO grown on Si by chemical bath deposition
59 (p. 101)	E. Hasabeldaim	Effect of substrate temperature and post annealing temperature on ZnO:Zn PLD thin film properties
60 (p. 102)	Jatani Ungula	Effect of pH on the structural, optical and morphological properties of Ga-doped ZnO nanoparticles prepared by reflux method
61 (p. 103)	A. Talla	Block copolymer templates for zinc oxide nanorods

62 (p. 104)	T. L. Lotha	Sol-gel synthesis and characterization of doped barium titanate nanophosphors
63 (p. 105)	Dickson Andala	Magnetic and optical properties of un-doped and Co-doped TiO ₂ nanotubes from electrospun carbon fiber templates
64 (p. 106)	Dickson Andala	Photochemical and photophysical properties gold nanoparticles supported on electrospun TiO ₂ nanofibers
65 (p. 107)	G. L. Kabongo	Investigation of ZnO:RE ³⁺ nanostructures for efficient charge transfer in hybrid based P3HT heterostructures
66 (p. 108)	G. L. Kabongo	Enhanced room temperature ferromagnetism in sol-gel derived ZnO:Ho ³⁺ nanostructures
67 (p. 109)	BS Mwankemwa	Thickness determination of interfacial SiO ₂ ultra-thin films between ZnO based materials and the Si substrate
68 (p. 110)	Mantwa A. Lephoto	Study on photoluminescence and energy transfer of Eu ³⁺ /Sm ³⁺ single-doped and co-doped BaB ₈ O ₁₃ phosphors
69 (p. 111)	Sharon Kiprotich	A comparison investigation of optical, structural and luminescence properties of CdO _x Te _{1-x} and CdTe _x Se _{1-x} nanoparticles prepared by a simple one pot method
70 (p. 112)	Sharon Kiprotich	High luminescent L-cystine capped CdTe quantum dots prepared at different reaction times
71 (p. 113)	Fekadu Gashaw Hone	Roles of cationic concentration and pH on the structural, morphological and optical band gap of chemically synthesized lead sulphide thin films
72 (p. 114)	Promod Kumar	Plasmonic metamaterial-based graphene/TiO ₂ /Ag thin film by a simple spray pyrolysis technique
73 (p. 115)	Shadrach Akinkuade	Synthesis, structural, optical and electrical characteristics of nickel oxide thin films by chemical processing methods
74 (p. 116)	Zamaswazi Tshabalala	Structural transformation and enhanced gas sensing characteristics of TiO ₂ nanostructures induced by annealing

Abstract number index

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